# C.be intiniug gommail <br> AND COMMERGVIL GAZETTE. 

No. 28.-VoLII.] LONDON, SATURDA, MARCH 5, 1836.
Price 7d.

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 B RAZILLAN COMPANY - The holders of Cata Branca Sharea
 THE DIRECTORS of the HAYLE CONSOLS MINING

 UNITED MEXICAN MINING ASSOCIATION.
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DENOLES GOLD MININGASSOCIATION


Fast wheal brothers copper tiv, lead,

 $\%$, New Broand stree
H OLMBUSH COPPER MINING COMPANY - The Direc


CARN GREY TIN MINING COMPANX:-In pursaance of



WHEAL FALMOUTH CONSOLIDATED COPPER, TIN



 of them proppectues mat be obatiand.
NATIONAL BRAZILIAN MINING Association.


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 NEW SOUTHI HOOE MINE. The recent liseoveriey at
 ST HILARY COPPER MINING COMPANY-

 CORNWALL GREAT UNITED MINES












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BOLIVAR MININD, A88OCIATION.-


 ST. GEORGES HARBOUR AND RAILWAY COMPANY



Ama Naw fivalogical AND MiNBRALOGICAL MAP OF The Metallforvons Tmate bive been haw wivi bye





GEOLOGICAL AND, SURFACE MAP OF THE PRIN










THE THAMES TUNEE, opposite the end of Old Gravel



 W EST INDIA AGRICULTURAL COMPANY


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Soccto We W, Emithe:





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SCHAUFFELEN'S PATENT HOT-AIR FURNACS FEEDRR







$H^{\text {ungerford and lambeth suspension foot }}$




H UNGERFORD and LAMBETH SUSPENSION BRIDGE






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 THE RHYMNEY TKON COMPANY:




## THE MINING JOURNAL

PARLIAMENTARY SUMMAKY. Hovse or LOADS, Fith

Lord TkxxuAM complained of sivepaced which had been male by Lord



 HOUSE of COMMONS, FBrruary 29, 1836.
Mr Pointrr Tuowson, ppon bringting yp the report of the seleet Com.











 the Iribh Municipal Reforma Bihl was reata a second time.








 ACCIDENTS IN MINES-DAVY LAMP.
We now renew this interesting subject, and preent to onr readers a
part of the evidence of Mr. Geoorge Upton, given tefore the Commisioners
of Parianentary Enaquiry










 he considerede it not toaf? p-Yes; he aut to the cirruustances under which








 current

 Who is Mr. Peroin?-He ita member of the College of Surgeons,
 lecturer, and a a good an anthority on
dos o very large ebemieal sehoo.
Will yon state what experiments stis gentleman mate on the lamp!-
 cocurity, ooe a Dovy yamp, and examined it very strictly; but as the in
 tried were pertect. He
ylinide of
ine guze.





 three years previously making experiments on safety hamp
mitted our hamp to him, which lue tried in the sume way.
Wiil you deecribe to the Commitue in what reapeet that lamp varied

 anme), the nir pasect
cal
 penaty no nother pation the the advantat at or near the wick is capable of

 Holes by the flame of the wick, the aceess of air being prevented in all other
 Sir fumphrey Davy's lamp.
ag before stated; the current of air pasese sout of the top of the lamp.



 piace it on the outside, aneer a great dieal or consideration and a great many prmal aceident than from the risk of coming in in contaot with the flame or int were inside, and the lamp were to be put in a small degree out of ould be very likey, to break it Another advantage of the glass, being

Suppose the glass to be perfeet for the effect for which you use it, caus-
as the current of air to pass down the thapp, what is the adrantage of the
 Tet, the firs lampo sir Homphryy Davy made were entirely without wire

 on that point
Suppoing the glass to break, the lamp is subject to all the aceidente of Dayy lampt-Yest it beemos a Davy lamp at once, and is no worse of ces liable to aeceident from its previous coveriog, is likely to be more per
 tuty $i t$ is to inspact it
Then none of those
er glase ores it. At far ar treping it ellan I-Yes; but it woold not act with a glass, and The priceipat axronatage of your famp is, that the air which eaters the $\mathrm{Y}_{\text {ou }} \mathrm{a}$ aleo atled atimit just a sufficient quantity of air, either of of the namomppbere, or com -Yee (The witess tightered do, hamp.) The Commitee will oberree that Then, by the experiment of lighing the twe,




 d this kied , thit has jast been thoung by the neper giving out, wiine the
 Supt mot in thits.




 combustion, at teast, not to any great extent; coosequeenly the thame
 the light borraing 1-Yed, but its pooer of supporting fame has been takea
Troun it by its previous use, for it is a knoen chemicel fact, that air that. has supported ignition will not anain support it. far you hare endeavoured to discover whether, in a ehzmer yine with

 Has
 Was Mr. Pereira satisffel that your hanp was not liable to explode the he tried it with oxy- bydrogen, witch is is lest that it cannot meet with Wation. He noggeted that mode of trinal.
With a riew of exposing it to 1 atill more inflammate mifture - -Yes,
he did
He asso tried it in all the gradations of mixtures, from commoo coal gas to oxy hydrogen gas.
Was any
explosion produced
instanee only. It was with a lamp in differenty of kuardef to to the pern one


 suari, is now adopped.
Suppose the internal part of the gauze were filled with carbureted
hydrogen, to you not think it possible that an explosion could take place downards? - It was tried by iniecting gas from the top. This wes not
done with very grat force, but with more than was ever likely to Do not you think it possible to explode the gne at the flame downwartis
and through those mesthes - No; none of the trials hitherto madde would You think the current is so strong as to prevent that -Yes. If there
were to be a counter current, the effec of which has been tried, by lifitiog the lamp very rapidy ypward, it would put the lamp out, beeause it would
drive upon the wiek the earbonic acid and the nitrogea which had been

## formed The air the

That is, assuming the principiple that the wick deoomposes the whole of
the air that has been adminued ?-Yes.

## [To Lemationed]

ORTONAK CORRESPONDENCE.
 frequently the case when reporting on exhamseled mines, to accoount tor
 have been induced to make these brief remarks from a reent paper of
yours, wherein is inserted, in the report of Harmony and Montagae mines, come reflections on the former management. 1 feel no heitation thut
publicly to aseert', without fear of contradiction, that the mint to were wrought with the greatest skill and economy, which may be ascertained on referring to the mappa and books of the concern; but this matter
max be proved more elearily on their being druined of witer. I I would


Sin,-Haring tue bition of tik mining jovanal. on geology in different countries in the Mining Jowrunat, but mare pus



 mation, wanted on Irish mineralogy. These particulars are the following
visi :
 Nithin the four proviincee of Ir meland, LLiester, Munster, Connaughte, and




 cosered and given?

 ajuoning rivers; capp bilitices of drainase improvement?

 mays are in contemplation for many parts of it, and which ant, much noil likdy to meet with encooragement in England by information being giverem
of the extent of her mineral trowures. Too much attention, therffore,


 tratifcation roppecting the county it it doceribiong. -1 remain, Mr. Editoft
yours, trulys
WravkinNs.
A corone's inquest was held in a private toose, at the Ballast






The utility and importanee of geologioal nape b now too well known sad approcisted to ropuire any comment. Howerer groat the vile of


 sectual crust of the globe, and effoctually concold them to all but the mace:
rate and carful observer. It shours the relative position and extent of



 The firt idea amd propoual of geological mapp, appears to have hut ic

 to the entraordinary exertion and pereseveracee of one individuan;, Mnd that
liam Sivi-
land
 whinh appeared some years after Mr. Smith's, is also es Mork of ergato ori-
ginal merit,

 shere the labours of individals, excepting by slow and aluost imper-
eeptible progress, could saancely have proceded further. The goological maps
and mostady producect by Moutiful that have appeared, but it is ecarrecly poseible to peon seive any thing superior, to be eithber practicable or dexirable. .These
mapa extend, however, over a very limited portion of ceountry only, and
. their progress must necesaraily, be ulow: while in the counterval of finteen
years which has elapeed since the publication of Mr. Girent

 raluable fund of local information has huus theerir owsecumputatede, and a mose


 country. Among the additional pariculars whery emumerate, besides their tumeels, locks, and levels; the sarioss lines of mielway, including
those already exititiog, in progress, and proposed ; the latter ellases being properly distinguished. Also the heights of mountains, soundiags, and $A$ new and intersting feature hass aloo been introduced into this map,
by distinguishing the position and probable extent of those metaliferous mining districts of this country. These tracts aro shomn by a tmonger
tint




 production
 Gruite and clay state, eepectluly near the junttion, producest tin and deopper
Sin
Devent













 maneted with a tram-wregon working in the quarry gave was, and
 St. Gzoness Hanhoun and Ran
Oymectrad to to wourse of formation to construet a A line Railway Comfally explains and dieplary, an paterpaclel koowlect is of of toenderable length) set the rugged cast of North While, will be of vut importance to Liver

 portance to I Iretand.




 the nise in in iro.
Willimen
Dobree tors, in aceoriknce with thames Wall, zagr.e. emere reoolected as dirreeThanke baving boen voted to the chiranan and dircetoro, the meeting BRitisu Copprr miniva company. George and Vultare Therene peop Wetors of thin couppany was held at the

 We revret that mant of space prevents us giving in the prosent numbere
 WEST CORK MINING COMPANY






 Cor the jobbing ayplete, in which it appears Londen folks are too maily to
 ubbect before us, and having siven the extract mefrerd to, proesed to $m$.
 "It it o curtous feet tuat, prothep with one or two ocepplose, no
















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imperial brazilian mining company.

 acaitor. hayle hallway company.
The hall. garly geocol meeting of the propictorn of the compasy *w






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THE MINING JOURNAL

## (VLUABLE SHARES IN mings for sale by private


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NOTICES TO CORRESPONDENTS.





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## THE MINING JOURNAL

## Inv Commercial ©azette.

## LONDON, MARCH 5, 1836

The sudden and considerable rint which has taken place in the rice of metals within the last six monthin will, we have reason to apprehend, be followed by a serious reaction, if carried to a much greater extent; and which prompts us to make some observations
on the present occasion, with the view of cautioning the capitalist as to the investment which present prices, without reflection, migh induce him to make. The iron trade, which for years has been in a state such as to cause the suspension of many works, has more particularly made advances, and has again attracted the attention of the monied interest; observing, as we do, an advertisement in
our present number for working the Khymney and Bute propery, formation of the British Iron Company the Weldant on the Coal, and the Arigna Company, which were among the achemes of 1824 and 1825, we cannot but contemplate the present moment as one which requires cautious obscrvance to avoid the extmvagant which we may observe, en passant, is to be ascribed, in a great degree, the rise which has taken place in iron. It wotald afford us tained, as when we consider the advance is generaily from 85 to 100 per cent., it must have the effect, and that reaterially, of benehiting the operative miner; for as the cost of iron is entirely in with that employed in its manufacture, it must he and limestone to find a branch of industry like that of the iron trade flourishing, in a manner which enables the workman to obtain a fair remune ration for his labour.
It is, however. to the excessice advance which bas taken place,
and which is in no degree warranted by the and which is in no degree warranted by the demand, that we would observe upon; for assuming the present make of iron to be
soo,000 tons per annum, and even adnitting that some 1,200 to 1,500 miles of Railways are constructed in the next four or five years, and assuming that in their construction 250 to 300 tons of
iron are required per mile, the whole quantity, exclusive of exports which we must however admit have been on the increase of hate would not exceed 378,000 tons, or an average of 75,000 tons per nerease on the make: while the advance in the price of iron will bring into action works which have been hitherto for years dormant, and capable of making, we might say, tenfold the increased quantity required.
It must, at the same time, not be lost sight of, that since the year 1824, considerable adrances have been made in the economy of fuel, and generally in the manufacture of iron, to meet the low one of the moat important, as by its of the hor-blast is, perrapss quantity of fuel reduced (at the Clyde works in the proportion of sisty per cent, but it is now found, that almost any coal will anwwer the purpose of smelting iron; and hence that extensive mineral district, known as "the Potteries," which, until the present time, has been unavailable for the purposes of smelting the raw material, is now coming into full operation from the introduction this improvement. One word with respect to the companies referred to, the Shares of the British Iron Company, after having expended a capital of $1,000,000$. were at one time to be purchased pany, after ane a the of that sum. othing to their shareholders, the morks being disposed of to meet obligations ; and the shares of the Arigna Company, with an outlay of $12 s, 000$., were the other day unsaleable . We trust the
results of the past will operate as a caution for the future. If that be efficted, our object is attained.

THE FUNDS
Crty-Faznay Eveisime
The attention of the market is still principally confined to Railway paratively insignificant. Several orders from the country have been received daring the week for investments in the long lines, in consequence
of which Great Western advanced on Thursday 3. to 4l. per share, rith few sellers at the advanced price. Railway Shares generally leave of flat, although there has been evident firmness throughout the week,
affected, however, temporarily by the rejection of the Gravesend Bill, affected, however, temporarily by the rejection of the Grvecena wich
which had its infuence more particularly on the London and Greenwind Railwy Shares, which have, however, since railicd. The Calcutta and
Saugur Railway has acquired a premium of 224 and it appears that the ore incomprehensible the object, and the more distant, the more dexirmore is it considered by many. Spanish bonds have fuctuated between
A6f and 44 , leaving off abont 45 . In the English Funds there has Consols for nothongy doing.
closed

 Brighton (s.
end $\frac{1}{1} \ddagger$ dis.

## ATEST INTELLIGENCE.

Livknpool, Mancil 3.-Speculations are here rife. There are no less
than clare wem bonks about to be started here ; one cailed the Tradesmans' Bank, a second the Liverpool Trades' Hank, and a third the Royal Mank
 be formed, with what success remains to be proved.
Sr. Avstu
 inpendent, and sppear careless of orders. There is talk of somene new concerns
sring put on here, they ner getting siteen stampheads of work at St. Anstle

 Brea mines thee yhave another discovery, south of Teague's lode, having eut
a loie four foot big, good for ore. This makes the fourth lode diseovered stray-park is decidedly lopproving; report speaks well of Harmony and Montague, and I think the Redruth United, with economical
will do ; is thought well of by some in this neighthourhood.
Bla it
 quite evident that the recent rise in the article did not proceed from any at-
tempt of the smelter to earry up the price, but from an increased demand. The prices suoted in our market for trice is in foos., cake 1023., bests. 10ts.
for cassh spelter remains stationary, the present quotations fuctuatio

 a consilerile do
 not so much as you ought ; and it is on this necount that 1 now write, ob-
serving little or no notice of our mines is this neighourhod. At Whenl
Brothers they have cut the lode at the 30 fathon level, but it is some 30 Hrothers they have cut the lode at the 30 fathon level, but it is some
fathoms from the rich sink going dow; I underatand, however, it it very
promising. At Whenl Sisters they have secured the shaft, and are now break
 fully; their appearances there are 1 an told promising. Holmbush have
some ores realy for shippent to Sanasea; 1 I cannot see why they migh
not be oold here, but 1 suppose the eopper buyers want to take in the "wise


## SOCIETY OF ARTS

 Angue, Samuda, Solly, and other gentiemen of science. The first paper read
was on the drainage of feas by the application of steampower, by Mr. Glyyn.
of the Butterley works. This paper, however valuable as to the details work performed, had not any thing in the way of novelty to recommened it, as
veveral gentuenen present were not only fully aware of the application of the
principle, lout one (Mr. Harue) hat, wnder the direction of the lote Sir Principle, but one (Mr. Hague) hat, under the dirrection of the late sir
Remaie, put pa an engine for that purposenineteen years since. Several
plans accompanied the paper, as also calculations, which had all the appear nece of much care having been devoted to them. The thanks of the socict The paper of Mr. Gratton, with the model of the Miner's Mirror, to which
attention was directed in No. 25, ned which elicited a correspondence, which appeared in our subsequent number, was agnin brought under the considera
ton of the coumitece when Mr. English explained its object, and the ad
vantages, he constiderech, attendnet on its


Sprives.-Springs, although upon a mmall scale, are actively All waters issuing from beneath the surface of the ground, contain more lients that the "crystal spring" owes its clearness and agrecable taste-
Lime is the predoninating substance in mineral waters, in which it is held soltation by meass of carbonic a saturated with the carbonate. The carbonic acid being, in these cases.
withdrawn by the abstraction of heat, and other circumstances, a larg deposit of limestone takes place, as in the Solfatara, and on the banks of
the Anio, at Tivoli, and in many other situations in the neighbourhood of Rome : the principal buildings in ""the eternal city," in fact, are built of
his rock of modern origin. The rapidity with which this concretion Ieposit is effected is not less incredible than the great extent of its for
dith aqtion. Thave seen specimens of travertin or tufa, as it is termed
equal in havens. and beauty of erystalisation to the hardest mamble,
whinh had formed in considerable masses in the short space of twel months. Sir Humphrey Davy mentions in his "Consolations of Travel,"
 dificulty it breaking, with a sharp. pointed hammer, the mass which ad-
heredi to the stik, and which was several timehes in thickness. At San Fillippo, in the same neighbourhood, water, charged with lime and mag.
nesia, has been known to deposit a solid mass of rock thirty fect thick, in twenty yeurs: and in other localities where this deposition is going on,
inse forned hills or monticules a hundred and fifty feet high, or filled up alleys of equal depth.-Lanramee's Geology.
18.35, added interest to the study of chemistry, in one of its branches, by
 an invaluable discovery, and to derogate from the same of a chemist,
hose memory Engiand will long cherish-Sir Huaphref Dasy. Tin efficasy of the "Dary lamp" has been questioned by ignoranere, whicl ductions of science. It is clear to the unpreviudiced wind, that the frish

 akke of a groater momentary light. The grounde on which the efficacy of
the "Dasy hamp " have been deniel are lameatable proofs of a great halt
in the march of useful knowledge. One wise authority that " the air is decomposed, and the orygen accumantates in ively assertas
of the lamp. firning an esplosive mixtarel and that whea the matter in ive air in the mine inftames " fand goes of,",



IINING CORHEBPONDENCE.
ENGLISH MINES.
February 27, 1836 .- Hakign reecived this weekk ome of the prinelpal parte
of the engine, I have now a hope that no farther delay will take place ia ite completion. Respecting the Maderground operations, all are poing ou, tae
 part of the lode ia the Bottoms, which has produced some very rich ore.
RicuABD Rown, jun.
$\qquad$ Feb, 27, 1836. - We are proceeding with clearing the eld shallow working
at Landrew, nas noticed in my hast of the 2oth instant, and hope soon tion
ascertain what are the prospects left by the old men. We are, as usual, ascertain what are the prospects lef by the ohd
going on favourably with the purfige erections, $\AA$.

## himard Rown, jun.

 Feb. 29, 1836 -In friaghiag (down the rods we fiad it neeesary to eutnore ground in the shiaft than we anticipated, in order to fix the pit-work is a proper manner; the shaft being very small and irregular at and above the chirty-five fathom level $:$ and we have been thereby prevented from dropping th ainking lift to the nest level, which we should ohherwise have do
days sinee. We have reason to oblieve that we shall find the shat to have
heen sunk in a more miner-like manner below the point where it took the been sunk in a more miner-like maneer below the point where it took the
lode. We find the thirty-five and shallow levels in an aver firm state, so for
as we mex
 tinuation of the proceedings noticed in my last report respecting the tributon
and otherwise, except that we shall commence stamphg the tin stuff at
Orchard immediately.
Wr. PkTHERICK.
 $\operatorname{siz}=2=5$ which there is a strong pente-louse; and and shoutd the wive fith of pumps not opinion the said pent-house will give way, and that we shall thereby be
enabled to drop to the bottom of the mine. However, we shall not run any risk in this work (1 mean as to aceident to men, or loosing our pit-work),
and stomuld the lif of pumps not readily pass through the sid pent-house at
the thirty-five fathom level, we shall content ourselves by forting the wite the thirty-five fathom level, we shall content ourselves by forking the water
to that point, and cat through the works there, so as to drop to the bottom of the mine without the least risk (as to life or loosing our pumps); ; and shall
then drop to the bottom of the mine, which I trust and believe I shail have he satisfaction of reporting to you will be effectually drained in a fortnight
Our splendid piece of machinery goes along admirably, and every thing look Our splendid picece of machinery goes along admirably, and every thing looks
well as we advance. We have not, since my hast report, advanced in any of
our adit levels on the lode. We have this day bored Stainsby's shaft to the adit level, and in his Mresence, and who, 1 believe, is much gratifed at the
result, as well (with Mr., H. Tomas) with alil the works about the mas.
chinery, and other woeks on the mines. We have rich specimens of silvet hrinery, and other wouny fathom levels in the old mines, and which is encou-
fom the ten and tweat raging in the extreme; and we have some parcels of ores from Wheal M
adit and other levels, which whill be prepared forthwith for sampling.
Jos. MALAc

 He more 1 am confinned in my frat opinion, and am prosecuting the diffreent
odes at the deep adit level. On Maria lode the ground is much altered, and he lode improved, the men but regular brauch of ore and the men have nd by a cross-head or $*$ par branch, but conten is rather its filsordered in the meat the eroxs-cut looks promising, although not rich for ore ; but on the eorrth
lode we have a good branch, and the lode large; nlo saving work; the mee
have driven five feet. In the engine-shatt the ground continues much the
sune the with

the engine goes to work.
perran consols minina company. W. Sincock.

Feb, 29, 1836.-We Whave got on very favourably with our surface works
this wek, and have taken up a great deal of water that wwas going dowi
into the mine. At Rose the adit is cleared home to the shaft we had opened
 productive. The appearances, on Anthony's lode are just the same as stat
last. Mudge's lode to the east of cross-course has not been seen as yet.
JAMES GRIPE.


 fercace, as in all probability the north one will fall in with it in extending tin
level east.



 aste epogine-athaf, The lonte in the twelve fathom level, west of Coek's shaf mueh the saine as we reported last weck, and we consider it to be a proouk
ing lode. The lode in the thirty-two fathom level, east of the engine-sbat
is about four feet level, east of Goodinge's shanf, fs abouet five feet wide, one part of it mad
 opening the rise to bring down the kibble to the aforesaid level. At Buckett)
the branch in the adit level is more promising than it has beea for som
 morking, oas, aesday last, we have drained Elljah eight fathonss, and Bullert
five fathoms, nad are now about to elear and repair our shafta, to drop Several parcels of tin stuff have bere ampled frous Wheal Uny : the
for last week was 3248 sacks: at Wheal Buckets, a sew eighty-inch eyi engine has been lately grected, which comaneneed a morking hast week.
war
F6. 27, 1836.-We Gavy gaky nivive coupany. nine since you hat the mos tweek's report, the groand in the different lee
is jest the some, ass to prior and prospects, as it was last wek. Robsa
R. Ros.

 mangmea a burgive 10 make the eagrien-shaft


















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 Anve get seen. The water is dralied as deep as the alit level; the drainoge
 Manarillact
 monton ; no new diteovery has been made, and the mine is orther pooro, ployed by day only, clearing vind reparing the taborect of this mine; they


 Merioo, Dee, 27, 1 z3s.- Late nevice from Veta Grunde inform me, thay






















 Sorrase. At the end of the month the vein whicil we followed in the winze of




























## 

 Sags in the mine for the past month in is oow extended fify-six feet N.E. from Boxden's simze. We have atoo diven A eroses rett fourten feet W.



 yve ay nem loded, is still gond, ana the ore for

 amploped securiag thin hevel, anal when thiie work is erampleted, which will Tuantity of grey ore here, The shallow level, Richard's cross cut, and other














 Stamphealieat Weet Ther in



 tail of raing another seaile of growad came avay, but without doinf any Now e, Mall Farmerrite
 Nese Dratieg Froers, and will now wevilariy contiane there antil they have The completion of the floors, will be the propoed arrastre, to be driven by

 ncilination on my part to earry on the work, as 1 Len of opinion that it may








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 Cmuzala Gztraction Lerel. - The new tramoromi


 North Cruzala Arausb.-In order to soo if this branech, which showed 1 on








 Stepesi- - All the ore broken aud remaining in the stope Not ao has been
 inued reguiariy y and the quantity of ore broken during the
be seen in the encelosed tut-bargain and mine erport table.
Caparraual Aecequin Lemedi. The Iodede in thises tation continues nomiand:



 San Antonio End contains a very sof and wid




 on account of is sardiness. This was accomplisthed in in about

 The width of the ord wraringgs. कin the sink we sacertained to be from one
 The new short is in a favourabie state, and 1 hope to acceomplitioh the obs.

 daserve, that the temporary stoppages took place in consequence of the diff. ness to work regulariy dariing two or throve days of eseeedingty wet wenther:

 John Wilitames appointed to replace the palanders, and superintend the eomple-
tion of the Lion of this job, with all possible dispatch.
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